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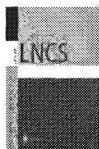
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**Content Types Subject Collections****Book Chapter****Focused Crawls, Tunneling, and Digital Libraries****Book Series**

Lecture Notes in Computer Science

Publisher

Springer Berlin / Heidelberg

ISSN

0302-9743 (Print) 1611-3349 (Online)

Volume

Volume 2458/2002

Book

Research and Advances Technology f
Digital Technology : 6th European
Conference, ECDL 2002, Rome, Italy,
September 16-18, 2002. Proceedings
2002

Copyright

2002

Pages

49-70

Subject Collection

Computer Science

SpringerLink Date

Thursday, February 19, 2004

AuthorsDonna Bergmark¹, Carl Lagoze¹, Alex Sbitaykov¹¹Cornell Digital Library Research Group**Abstract**

Crawling the Web to build collections of documents related to pre-specified topics became an active area of research during the late 1990's, crawler technology having been developed for use by search engines. Now, Web crawling is being seriously considered as an important strategy for building large scale digital libraries. This paper covers some of the crawl technologies that might be exploited for collection building. For example, to make such collection-building crawls more effective, focused crawling was developed, in which the goal was to make a "best-first" crawl of the Web. We are using powerful crawler software to implement a focused crawl but use tunneling to overcome some of the limitations of a pure best-first approach. Tunneling has been described by others as not only prioritizing links from pages according to the page's relevance score, but also estimating the value of each link and prioritizing them as well. We add to this mix by devising a tunneling focused crawling strategy which evaluates the current crawl direction on the fly to determine when to terminate a tunneling activity. Results indicate that a combination of focused crawling and tunneling could be an

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subject specific crawler smart

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Results 1 - 10 of about 152,000 for **subject specific crawler smart** (0.12 seconds)

Subject specific search engine - Patent EP1341099

A **subject-specific** search engine utilizes a **smart web crawler** and includes a capability of filtering out sites not relevant to the particular **subject**. ...

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SearchEngineWatch: Meet The Crawlers

Palka described "**subject specific popularity**" as the feature that makes Ask Jeeves ...

Smart search features provide fast access to weather forecasts, ...

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Palka described "**subject specific popularity**" as the feature that makes Ask Jeeves ...

Palka identified Ask Jeeves' "**smart** search" as taking search beyond ...

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Smart Search

As a result, as information grows deeper, **crawler**-based engines become more ... By limiting its **crawling** to a **specific subject** area, the niche engine can ...

www.rps.psu.edu/0305/search.html - 28k - [Cached](#) - [Similar pages](#)

Precision Among Internet Search Engines

Also many keyword or **crawler** search engines provide hierarchical **subject** channels to the scheme and Look **Smart** proclaims a "16000-plus **subject** index ...

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user behavior. • Integration of structured data with web search. **Smart** answers ... local

subject-specific mining. 3. Local **Subject** Community ...

www.stanford.edu/group/mmds/slides/yang-mmds.pdf - [Similar pages](#)

Smart Computing Article - Search Tools

Traditional **crawler**-powered search engines, such as HotBot ... also known as metasearch engines, are useful for conducting **specific** searches. ...

www.smartcomputing.com/Editorial/article.asp?article=articles/

archive/i0603/40i03/40i03.asp&guid=- - 32k - [Cached](#) - [Similar pages](#)

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Site Features: **Smart** Answer. Topic Zooming with Search Suggestions ... local **subject-specific** mining. 3. Local **Subject** Community ...

www.cs.hku.hk/infoscale06/presentation/keynote.ppt - [Similar pages](#)

Advanced Internet Searching

Spiders, Robots and other **Crawlers** Web Robots are programs that traverse the Web ...

Subject-specific search engines do not attempt to index the entire Web ...

www.dtic.mil/dtic/training/internet/inet-search1.html - 16k - [Cached](#) - [Similar pages](#)

Search Tool Overview (Russ Haynal)

See robots.txt for more information, and a list of known robots **crawlers**. ... Virtual Libraries are **subject-specific** indices that are created (and maintained) ...
navigators.com/search_tool_intro.html - 15k - [Cached](#) - [Similar pages](#)

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topic specific smart crawler

1999

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Scholar [All articles](#) - [Recent articles](#) Results **1 - 10** of about **94** for [topic specific smart crawler](#) (**0**).
All Results

[S Chakrabarti](#)
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Focused crawling: A new approach to [topic-specific Web resource discovery](#) - all 43 versions »

S Chakrabarti, M van den Berg, B Dom - COMPUT. NETWORKS, 1999 - [http.cs.berkeley.edu](#)

... to everyone, and do not specialize in **specific** areas ... for organizing large text databases

into hierarchical **topic** taxonomies ... A **smart** itsy bitsy spider for the web ...

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Evaluating [topic-driven web crawlers](#) - all 17 versions »

F Menczer, G Pant, P Srinivasan, ME Ruiz - Proceedings of the 24th annual international ACM SIGIR ..., 2001 - [portal.acm.org](#)

... or to redistribute to lists, requires prior **specific** permission and ... them) are ranked by **SMART** using the **topic** (cf. ... MAX PAGES pages best ranked by **SMART** as early ...

Cited by 110 - [Related Articles](#) - [Web Search](#)

Exploration versus exploitation in [topic driven crawlers](#) - all 8 versions »

G Pant, P Srinivasan, F Menczer - WWW02 Workshop on Web Dynamics, 2002 - [dollar.biz.uiowa.edu](#)

... Ta- ble 2). Thus given a **topic**, the percentage of top n pages ranked by **SMART** (where n varies) that are retrieved by each **crawler** may be calculated, yielding ...

Cited by 29 - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

Metadata Based Web Mining for [Topic-Specific Information Gathering](#) - all 3 versions »

J Yi, N Sundaresan, A Huang - Proceedings of the First International Conference on ..., 2000 - Springer

... We use metadata to direct our **crawler** to a ... B.: Focused Crawling: A New Approach to **Topic-Specific Web Resource** ... YM, Ramsey, M. and Yang, CC. A **Smart** Itsy Bitsy ...

Cited by 3 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Exploration versus Exploitation in - all 2 versions »

G Pant, P Srinivasan, F Menczer - Proceedings of the Second International Workshop on, 2002 - [citeseer.ist.psu.edu](#)

... crawling: a new approach to **topic-specific Web resource** ... Exploration versus exploitation

in **topic driven crawlers** ... Kleinberg - 1999 181 The **SMART** Retrieval System ...

[Cached](#) - [Web Search](#)

Multiple-goal Search Algorithms and their Application to Web Crawling - all 8 versions »

D Davidov, S Markovitch - Eighteenth national conference on Artificial intelligence ..., 2002 - [cs.mtu.edu](#)

... a small por- tion of the web of pages dealing with a **specific topic** or sat ... Is it possible to design a **smart crawler** that would scan only relevant parts of the ...

Cited by 1 - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

Target Seeking Crawlers and their Topical Performance - all 2 versions »
 P Srinivasan, G Pant, F Menczer - The 25th Annual International ACM SIGIR Conference on ... 2002 - citeseer.ist.psu.edu

... **A topic driven crawler** must exploit the information ... environment - Kleinberg - 1999
 181 **The SMART Retrieval System ... A new approach to topic-specific** Web resou...
 Cited by 13 - [Related Articles](#) - [Cached](#) - [Web Search](#)

Focused crawls, tunneling, and digital libraries - all 9 versions »

D Bergmark, C Lagoze, A Sbityakov - Proceedings of the 6th European Conference on Research and ... 2002 - Springer

... We are using powerful **crawler** software to implement a ... inexpensive raw computing power

and **smart** algorithms. ... build online collections of **topic specific** resources ...

Cited by 34 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Learning to Understand the Web - all 9 versions »

WV Cohen, A McCallum, D Quass - IEEE Data Engineering Bulletin, 2000 - acm.org

... and can be ignored once the **crawler** has determined ... and also more efficient than

other **smart** spiders that ... focused **topic specific** databases (like imdb.com, which ...

Cited by 20 - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

Does "authority" mean quality? predicting expert quality ratings of Web documents - all 9 versions »

B Amento, L Terveen, W Hill - Proceedings of the 23rd annual international ACM SIGIR ... 2000 - portal.acm.org

... of links from any given host to a **specific** document ... We solicited self-identified **topic** experts from AT&T and ... The **crawler** uses **Smart** [[5]] to generate a centroid ...

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Result Page: 1 2 3 4 5 6 7 8 9 10 [Next](#)

topic specific smart crawler

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Scholar [All articles](#) - [Recent articles](#) Results 1 - 10 of about 31 for [topic specific smart crawler filter](#)
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S Chakrabarti, M van den Berg, B Dom - COMPUT. NETWORKS, 1999 - [http.cs.berkeley.edu](#)

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into hierarchical **topic** taxonomies ... **A smart** it'sy bitsy spider for the web ...

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[Learning user's preferences by analyzing Web-browsing behaviors](#) - all 9 versions »

YW Seo, BT Zhang - Proceedings of the fourth international conference on ..., 2000 - [portal.acm.org](#)

... HTML documents were presented at a **topic** with each ... method converged on the user's

specific interest faster ... in information retrieval, The **SMART** Retrieval System ...

Cited by 28 - [Related Articles](#) - [Web Search](#)

[Open Architecture for Distributed Search Systems](#) - all 7 versions »

M Bessonov, U Heuser, I Nekrestyanov, A Patel - Proc. of the Sixth International Conference on Intelligence ..., 1999 - Springer

... respect to the Collection's chosen **topic**, where out ... is in emphasising the terms that are **specific** to the ... or one-pass clustering used in **SMART** retrieval system ...

Cited by 9 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

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D Bergmark, C Lagoze, A Sbityakov - Proceedings of the 6th European Conference on Research and ..., 2002 - Springer

... relatively inexpensive raw computing power and **smart** algorithms ... technologies for using

a Web **crawler** to help ... to future work in **topic-specific** digital collection ...

Cited by 34 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[Using star clusters for filtering](#)

J Aslam, K Pelekhev, D Rus - Proceedings of the ninth international conference on ..., 2000 - [portal.acm.org](#)

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and ... (4) To adjust **topic** definition the ... The **Smart** document retrieval project. ...

Cited by 5 - [Related Articles](#) - [Web Search](#)

[The Term Vector Database: fast access to indexing terms for Web pages](#) - all 7 versions »

R Stata, K Bharat, F Maghoul - Computer Networks, 2000 - Elsevier

... when combined with other Web-**specific** sources of ... and M. Henzinger, Improved algorithms

for **topic** distillation in a ... 8. G. Salton, The **SMART** Retrieval System ...

Cited by 17 - [Related Articles](#) - [Web Search](#)

[book] Content Filtering Technologies and Internet Service Providers: Enabling User Choice - all 2 versions »

M Shepherd, C Watters, M Boyd, Dalhousie ... - 2000 - [strategis.ic.gc.ca](#)

... are exchanged in real-time on some **topic** of current ... that are used in the various **filtering** mechanisms. ... content related labels to URL's and/or **specific** Web pages ...

[Cited by 1](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#)

Smart task support through proactive access to organizational memory - all 9 versions »

S Staab, HP Schnurr - Knowledge-Based Systems, 2000 - Elsevier

... Author Keywords: **Smart** task support; Proactive access; Organizational ... are related to a particular **topic**, eg knowledge ... May-June 2010' is so **specific** that in ...

[Cited by 35](#) - [Related Articles](#) - [Web Search](#)

[book] Mining the web to create minority language corpora - all 12 versions »

R Ghani, R Jones, D Mladenović - 2001 - ACM Press New York, NY, USA

... by combining other kinds of **topic** or target ... from target documents to give their **crawler**

more information ... to quickly find documents in a **specific** language, we ...

[Cited by 20](#) - [Related Articles](#) - [Web Search](#)

Evolving intelligent text-based agents - all 2 versions »

ES Yu, PC Koo, ED Liddy - Proceedings of the fourth international conference on ..., 2000 - [portal.acm.org](#)

... word w, with respect to a category or **topic** is: C ... The Web robots, starting from a **specific** Web site, follow ... we will be able to build **smart** portals automatically ...

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L28	125	subject with (crawler or (search with engine) or spider or bot or harvest\$3) and smart and filter\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/28 18:52
L29	57	subject with (crawler or (search with engine) or spider or bot or harvest\$3) and smart and filter\$4 and feedback	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/28 18:53
L30	127	(domain or field or subject or topic) with (crawler or (search with engine) or spider or bot or harvest\$3) and smart and filter\$4 and feedback	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/28 18:53
L31	2	(domain or field or subject or topic or industry) with (crawler or (search with engine) or spider or bot or harvest\$3) same smart and filter\$4 and feedback	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/28 18:53
L32	313	(domain or field or subject or topic or industry) with (crawler or (search with engine) or spider or bot or harvest\$3) and (intelligent or smart) and filter\$4 and feedback	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/28 18:54
L33	128	(domain or field or subject or topic or industry) with (crawler or (search with engine) or spider or bot or harvest\$3) and (intelligent or smart) and filter\$4 and feedback with (user or client)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/28 19:42
L34	2	"7062561".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/28 18:57
L35	1265	multiple with search with engine	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/28 19:42

EAST Search History

L36	5	multiple with search with engine with subject	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/28 19:42
L37	0	multiple with search with engines with subject	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/28 19:42
L38	719	multiple with search with engines	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/28 19:43
L39	4	multiple with search with engines with crawler	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/28 19:43
L40	1313	meta with (engine or crawler)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/28 19:43
L41	62	meta with (engine or crawler) with (topic or subject)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/28 19:44
L42	14	meta with (engine or crawler) with (topic or subject) and feedback	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/28 19:46
L43	33	meta with (engine or crawler) same (topic or subject) and feedback	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/28 19:48

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	0	"smart crawlwer"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/28 08:49
L3	2	"smart crawler"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/28 08:58
L4	23	"1341099"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/28 08:57
L5	13	smart with crawler	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/28 08:59
L6	21	"smart search engine"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/28 09:12
L7	19	"smart search engine" and link\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/28 09:13
L8	19	"smart search engine" and (hyper or url or link\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/28 10:21
L9	2	"20040148302".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/28 10:14

EAST Search History

L10	45813	Monitor\$\$ with (hyper or url or link\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/28 10:21
L11	72	Monitor\$\$ with (hyper or url or link\$3) with depth	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/28 12:25
L14	73	Monitor\$\$ with (hyper\$4 or url or link\$3) with depth	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/28 10:55
L23	72	Monitor\$4 with (hyper or url or link\$3) with depth	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/28 12:27
L24	51	(crawler or spider or bot or harvest\$4 or filter\$3 or index\$4) with (hyper or url or link\$3) with depth and search with engine	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/28 12:29

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... **smart search engine** optimization (SEO) has become a matter of survival. ... One of the most important aspects of SEM is obtaining **link** popularity. ...
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Reciprocal link management software

is a **smart search engine** management tool that greatly helps you to find and ... with to download according to size, definition and color **depth**, and even... ..

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maximum depth links search engine subject

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Abstract of EP1341099 A **subject-specific search engine** utilizes a smart web ... **maximum depth** value, discarding the **links** leading from the given site; and ...
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Subject Trees/Subject Catalogues; index-based Search Engines **maximum depth** of the graph extracted from RDG or the upper bound on the length of the ...
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Title: A user evaluation of subject based information gateways: case study ADAM

Author(s): Maria Monopoli, David Nicholas

Journal: Aslib Proceedings

ISSN: 0001-253X

Year: 2001 **Volume:** 53 **Issue:** 1 **Page:** 39 - 52

DOI: 10.1108/EUM0000000007036

Publisher: MCB UP Ltd

Abstract: Nowadays, end-users have quick and direct access to massive amount of information available on the Net. However, this information is unorganized expecting users to be able to identify and evaluate it in accordance with their information needs. Subject based information Gateways SBIG, organized collections of networked information, provide users with a catalogue of authoritative Internet resources, which can be searched and/ or browsed. This paper provides an evaluation of one such gateway - the Art, Design, Architecture & Media Gateway ADAM. It provides information on who these users are, how often they use the service, what their reasons for use are, which search methods and services they prefer and what are the advantages and disadvantages of an online information service.

Keywords: Cataloguing, Internet, Network organization

Article Type: General review

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Title: The use and usefulness of functions in electronic journals: the experience of the SuperJournal Project

Author(s): Ken Eason, Liangzhi Yu, Susan Harker

Journal: Program: electronic library and information systems

ISSN: 0033-0337

Year: 2000 **Volume:** 34 **Issue:** 1 **Page:** 1 - 28

DOI: 10.1108/EUM000000000006924

Publisher: MCB UP Ltd

Abstract: This paper examines the general value to users of a range of electronic journal functions and their usefulness in the specific context of the SuperJournal Project. For the evaluation of each of the functions three types of data were analysed in relation to each other and in light of other contextual data: logged data of usage, survey data on user satisfaction, and survey data on the perceived importance of the function. The analysis shows that basic browsing, printing and search make up the core functions of electronic journals; other functions, such as saving of bibliographic data, alerting, customising, links with external resources and communication, serve as peripheral functions. The usefulness of both the core functions and the peripheral functions in a specific service is influenced by various implementation factors. However, it is the realised usefulness of the core functions which determines the use of a service.

Keywords: Internet, Journal publishing, Project management

Article Type: Research paper

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